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PPP extensions for IP/PPP-HDLC over SONET-SDH/

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Abstract:

IP has emerged as the internetworking protocol of choice. IP is a best-effort p which provides no guarantee of delivery or ordering of packets at their destindesigned to be transparent to the topology of the underlying transport network transparency is provided by a framing protocol operating over the data link or Due to the popularity of IP, attempts are underway to transport IP traffic over networks such as ADSL, HFC, ATM, **SONET**/SDH, and WDM. This paper exam dynamics of IP traffic over SONET/SDH using PPP in HDLC-like framing. Alt ATM framing (IP/ATM/SONET) is also presented, the main focus of this paper IP/PPP/SONET and its extensions, such as PPP multilink, and PPP tunneling discussion on the applicability of these PPP extensions to wavelength division multiplexing (WDM) networks is also presented in the conclusion

Index Terms:

SONET asynchronous transfer mode digital subscriber lines hybrid fibre coax netwo internetworking synchronous digital hierarchy telecommunication traffic transport pre wavelength division multiplexing ADSL ATM ATM framing HDLC-like framing H traffic transport IP/ATM/SONET IP/PPP-HDLC IP/PPP/SONET MAC layer PPP PPP multilink PPP tunneling protocol SONET-SDH/WDM SONET/SDH WDM net browsing best-effort protocol data link layer framing protocol internetworking proto transport network wavelength division multiplexing networks

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